



# PCPG

Pennsylvania Council Of Professional Geologists  
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## **Annual Meeting Program**

Tuesday, March 6, 2019  
Holiday Inn Harrisburg Hershey  
604 Station Road (Off Route 81)  
Grantville, PA 17028

**8:30 – 9:00**      ***Board of Director Arrivals / Refreshments***

**8:00 – 10:00**      ***RESERVED – Student Poster – Assisted Set-Up***

**9:00 – 11:00**      ***PCPG Board Meeting***

**11:00 – 11:30**      ***Annual Meeting Registration / Arrivals***

**11:30 – 12:50**      ***Annual Meeting Luncheon***

- Opening Welcome (Martin Helmke, Ph.D., P.G., PCPG President)
- Board Introductions, Recognition of Past Service
- Current and Planned Activities
- PCPG Scholarship Poster Contest Overview (Richard Wardrop, P.G.)

**12:50 – 1:20**      ***News and Dialog with the Pennsylvania Geological Survey***

Gale Blackmer, Ph.D., State Geologist (PA DCNR)

It's been a busy time at the Survey: staff turnover, new projects, and a fresh look at priorities for the Survey and DCNR as a whole. Gale will share the news, and give you a peek at the new strategic plan. One of the "pillars" of that plan is partnerships, including with PCPG. There will be plenty of time for your feedback on our services and discussion of ideas for the future.

**1:25 – 2:15**      ***The Intersection of Archaeology and Geology***

Brian L. Fritz, Quemahoning, LLC

Archaeology is the study of past human cultures through the excavation of artifacts and material remains found within the ground. The soil that contains and preserves artifacts is a geological medium. The artifacts themselves are most often made from geological materials. Presented are some examples of how the study of landforms, sedimentation, soil formation, and historic mineral extraction have helped to inform archaeological studies. Archaeology and Geology occupy common ground, but archaeologists and geologists often do not speak a common language. Some suggestions for better communications between archaeologists and geologists are provided.

**2:15-2:30**      ***Break***

**2:30 – 3:20**      ***Mapping and Monitoring Surface and Underground Mines and Mine Pools throughout Northeastern Pennsylvania***

Robert E. Hughes, Executive Director  
Eastern PA Coalition for Abandoned Mine Reclamation (EPCAMR)

The Eastern Pennsylvania Coalition for Abandoned Mine Reclamation (EPCAMR) works with coalfield communities facing significant environmental impacts from legacy abandoned

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mines. This talk will cover economic redevelopment of legacy landscapes for alternative energy projects, resource recovery of trace and rare earth metals, and georeferencing mine maps to locate points of infiltration, potential areas for subsidence, mine pool boundaries and elevations, and extents of mined-out areas. These projects help the public and businesses make informed decisions for land development and the need to purchase mine subsidence insurance for their own safety and peace of mind.

**3:25 – 4:15      *Using Compound Specific Isotope Analysis At Fulton Superfund Site Long Island NY***

Lisa Voyce, Senior Project Manager, HDR Engineering, Inc.  
Vincent Carbone, P.G., HDR Engineering, Inc.

This presentation discusses the use of Compound Specific Isotope Analysis (CSIA), a geochemical environmental forensic method in identifying volatile organic contamination sources. This technique has been used by the USEPA as a forensic tool to help to identify potentially responsible parties (PRPs) that may have been or are contributing to a commingled plume in the upper Glacial and Magothy aquifers in Long Island, as described in our case study. This presentation will provide an introduction to CSIA and information on an active investigation to illustrate how CSIA was used in combination of other characterization techniques to provide multiple lines of evidence to walk back plumes to potential source areas.

**4:15 - 5:00      *Announcements, Poster Scholarship Winners, Door Prizes, Annual Meeting Adjournment***

**5:00 – 6:30      *Networking Reception***

**Please remember to sign-out, and pick-up  
your certificate of attendance prior to your departure.**